INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/32322

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|--|---|---|---|
| A. CLASSIFICATION OF SUBJECT MATTER | | | |
| PC(7) : B29C 53/56, 53/62 US CL : 264/151, 288, 292, 294, 295 | | | |
| According to International Patent Classification (IPC) or to both national classification and IPC | | | |
| B. FIELDS SEARCHED | | | |
| Minimum documentation searched (classification system followed by classification symbols) | | | |
| U.S. : 264/151, 288, 292, 294, 295 | | | |
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| Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched | | | |
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| The state of the s | | | |
| Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) | | | |
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| C. DOCUMENTS CONSIDERED TO BE RELEVANT | | | |
| Category * | Citation of document, with indication, where a | propriate, of the relevant passages | Relevant to claim No. |
| Y | US 2,432,870 A (EVALT) 16 December 1947 (16.1 | | 1-12, 14 |
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| Y | US 2,740,987 A (MONCRIEFF) 10 April 1956 (10. | 9- 1-12, 14 | |
| | 35; column 2, lines 23-26; column 3, lines 1-7, 50-55. | | |
| Y | US 3,184,795 A (HOWELL, JR.) 25 May 1965 (25.05.1965), column 6, lines 29-41. | | |
| Y | US 2,392,842 A (DOELL) 15 January 1946 (15.01.1946), column 4, lines 13-14. | | 3, 9 |
| v | US 5,167,891 A (DIJKMAN, SR. et al) 1 December 1992 (01.12.1992), column 3, lines | | es 12, 14 |
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| Further | documents are listed in the continuation of Box C. | See patent family annex. | |
| * Special categories of cited documents: "T" | | | the international filing date or priority ne application but cited to understand the |
| "A" document defining the general state of the art which is not considered to be | | principle or theory underlying | |
| of particular relevance "X" document of particular relevance; the claimed invention | | | |
| "E" earlier ap | plication or patent published on or after the international filing date | considered novel or cannot be when the document is taken al | considered to involve an inventive step |
| "L" document which may throw doubts on priority claim(s) or which is cited to | | | |
| establish the publication date of another citation or other special reason (as specified) | | considered to involve an inver | nce; the claimed invention cannot be ntive step when the document is |
| "O" document referring to an oral disclosure, use, exhibition or other means | | combined with one or more of being obvious to a person skil | ther such documents, such combination led in the art |
| | | "&" document member of the same | |
| priority date claimed | | | |
| Date of the actual completion of the international search Date of mailing of the international search report | | | |
| 28 December 2004 (28.12.2004) | | 14 | JAN 2005 |
| | | Authorized officer | 1/1 . |
| Mail Stop PCT, Attn: ISA/US | | Authorized officer Mike Colaianni Amh Mike Colaianni | |
| | nmissioner for Patents | | |
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